TITLE: The Modified Mini-Mental State Exam for Screening Adults with Cognitive Impairment: Clinical Effectiveness and Diagnostic Accuracy

DATE: 18 February 2010

RESEARCH QUESTIONS:

1. What are the diagnostic accuracy, validity, and reliability of using the Modified Mini-Mental State Exam screening tool in adults with cognitive impairment?

2. What is the evidence for the use of the Modified Mini-Mental State Exam screening tool for the prediction of functional outcomes such as daily living activities?

METHODS:

A limited literature search was conducted on key health technology assessment resources, including PubMed, PsycINFO, PEDRO, OT Seeker, the Cochrane Library (Issue 1, 2010) including DARE, University of York Centre for Reviews and Dissemination (CRD) databases, ECRI, EuroScan, international health technology agencies, and a focused Internet search. The search was limited to English language articles published between 1999 and Feb 2010. Filters were applied to limit the retrieval to health technology assessments, systematic reviews, meta-analyses, randomized controlled trials, controlled clinical trials, and observational studies. Internet links were provided, where available.

RESULTS:

HTIS reports are organized so that the higher quality evidence is presented first. Therefore, health technology assessment reports, systematic reviews, and meta-analyses are presented first. These are followed by randomized controlled trials, controlled clinical trials, and observational studies.

Twelve observational studies regarding the diagnostic accuracy, validity, and reliability of using the Modified Mini-Mental State Exam screening tool in adults with cognitive impairment were identified from the literature search results. No relevant health technology assessments,
systematic reviews, meta-analyses, randomized controlled trials, or controlled clinical trials were identified. No articles were identified regarding the evidence for the use of the Modified Mini-Mental State Exam screening tool for the prediction of functional outcomes such as daily living activities. Additional articles of potential interest can be found in the appendix.

**Health technology assessments**
No literature identified

**Systematic reviews and meta-analyses**
No literature identified

**Randomized controlled trials**
No literature identified

**Controlled clinical trials**
No literature identified

**Observational studies**


8. Bland RC, Newman SC. Mild dementia or cognitive impairment: the Modified Mini-
Mental State examination (3MS) as a screen for dementia. Can J Psychiatry. 2001

9. Correa JA, Perrault A, Wolfson C. Reliable individual change scores on the 3MS in older
persons with dementia: results from the Canadian Study of Health and Aging. Int

10. Khachaturian AS, Gallo JJ, Breitner JC. Performance characteristics of a two-stage
PubMed: PM10812327

PREPARED BY:
Michelle Clark, BSc, Research Assistant
Melissa Severn, MIST, Information Specialist
Health Technology Inquiry Service
Email: htis@cadth.ca
Tel: 1-866-898-8439
APPENDIX – FURTHER INFORMATION:

Observational studies


Additional references